

On-Site Technical Checklist – Master Consolidated Version (Essential Electrical Report Field Data Standard)

Purpose: To collect verifiable on-site data required for the preparation of an Essential Electrical Report.

Intended Users: Licensed Electricians / Technicians / Technical Assistants

Core Principles:

- ✓ Observe, measure, and record only
- ✗ No judgement, no recommendations, no quotations, no risk explanation
- ✓ All data must be verifiable (photos / instruments)

SECTION 1 | Property Information & Environment (Mandatory)

Address:

Property Type: Detached Townhouse Apartment Unit Commercial

Approx. Year Built: <1990 1990–2005 >2005

Occupancy Status: Owner-occupied Rental Vacant

Special Occupants: None Seniors Children Disability

SECTION 2 | Supply & Distribution – Visual Inspection (Mandatory)

Supply Overview

Supply Type: Single-phase Two-phase Three-phase

Nominal Supply Voltage Displayed: 230 / 400 V Not labelled

Meter Type: Accumulation (Ferraris) Digital / Smart Mixed / Unclear

Consumer's Main Service Type: Overhead Over-under Underground pit

Service Fuse Location: Eave Stubby pole Meter box Service pit

Main Switch & Incoming Supply

Normal Supply Main Switch Present: Yes No

Main Switch Rating: ____ A

Number of Main Switches: ____

Main Switch Type: Isolator Circuit breaker Old knife / rotary

Service Fuse Rating (if visible): ____ A

Service Fuse Type: Ceramic rewireable Cartridge Not accessible

Signs of Overheating: No Yes (photo required)

Discolouration / Melted Plastic: No Yes

Enclosure, Backboard & Materials

Switchboard Location: Indoor Outdoor

Enclosure Condition: Intact Cracked Broken / missing cover

IP Rating Marked: Yes No

Signs of Water Ingress: No Yes

Dust / Insect / Spider Contamination: No Yes

Backboard Material: Timber Plastic Cement sheet Metal

Asbestos Suspected: Yes No Unsure (treat as asbestos)

Protection Devices & Capacity

RCDs Present: Yes No

RCD Type: Type A Type AC Unknown

RCBOs Installed: Yes No

Any Circuits Without RCD Protection: Yes No

Spare Ways Available: Yes (____ ways) No

Switchboard Appears At Capacity: Yes No Unsure

Earthing & MEN System

MEN Link Visible: Yes No

MEN Accessible: Yes No

Main Earth Conductor Present: Yes No

Main Earth Conductor Size Appears Adequate: Yes No Unsure

Bare Earth in Use: Yes No

Earth Bar Present: Yes No

Neutral Bar Present: Yes No

Earth & Neutral Mixed Downstream: Yes No

Cables, Entries & Legacy Items

Supply Cable Condition: Good Aged Damaged

Cracked / Brittle Insulation: No Yes

Unprotected Cable Entries (no grommet): No Yes

Exposed Single Insulated Conductors: No Yes

Incorrect Colour Identification: No Yes

Ceramic Fuse Holders Present: Yes No

Rewireable Fuses Present: Yes No

Signs of DIY Modifications: No Yes

Non-standard / Unknown Breakers: No Yes

Mixed Old & New Devices: No Yes

Operational Indicators

Signs of Overheating Anywhere in Board: No Yes

Burn Marks / Carbon Tracking: No Yes

Grease / Oil Contamination: No Yes

Loose Components Visible: No Yes

Photo Record Requirements

Overall switchboard

Main switch & service fuse

MEN link

Damage / corrosion / overheating

Asbestos suspected backboard

SECTION 3 | Internal Installation – Visual Inspection (Mandatory)

Instruction to Technician:

- Record only what is visible or directly observable
- Do NOT assess safety, compliance, or risk
- Do NOT interpret standards
- If a condition exists, tick it and take a photo
- If unsure, mark 'Unable to confirm'

3.1 Power Points (All Areas)

- Power point present (Number)----
- Power point moves when lightly touched (Number)
- Cracks visible on faceplate (Number)
- Burn marks visible (Number)
- Plug disengages under its own weight (Number)
- Switch movement uneven or obstructed (Number)
- Earth pin missing or damaged (if applicable)
- Surface feels abnormally warm to touch (photograph item)
- Horizontal distance from power point edge to sink/tap edge measured: ____ mm
- Extension lead connected at time of inspection
- Unable to confirm

3.2 Lighting & Switches

- Switch plate cracked or damaged
- Switch body moves when touched
- Unusual audible sound heard during operation (e.g., buzz, crackle)
- Light fitting moves when lightly touched
- Heat damage visible on fitting or ceiling
- Lamp type observed: LED Halogen Incandescent
- Bare metal wire core is visible (photograph)
- Unable to confirm

3.3 Kitchen – Fixed Installations

- Oven present
- Cooktop present
- Dishwasher present
- Dedicated outlet or isolator visible
- Supply cable located within ____ mm of cooktop surface
- Number of power points above bench: ____
- Horizontal distance from power point to sink edge: ____ mm
- Range hood present
- Grease residue observed on rangehood filter/cover (photograph)
- Unable to confirm

3.4 Bathrooms & Damp Areas

- Power point present in bathroom
- Light fitting present above bath/shower
- Exhaust fan present
- Heated towel rail present
- Moisture staining visible (photo reference)
- Unable to confirm

3.5 Laundry

- Washing machine outlet present
- Dryer outlet present
- Outlet height above finished floor: ____ mm
- Water tap present within ____ mm of outlet
- Extension lead connected at time of inspection
- Unable to confirm

3.6 Roof Space / Ceiling

- Roof space accessed
- Cable support method observed: clips / resting / buried

- Insulation contact observed
- Cable with non-modern (non-PVC) insulation observed (photograph)
- Taped connection (non-box) visible (photograph)
- Transformer present
- Transformer resting on insulation
- Not accessed (reason recorded)

3.7 Exterior & Garage

- Outdoor power point present
- Weatherproof cover present
- Cover broken or missing
- Exterior light present
- Garage door opener present
- Flexible lead fixed in place with clips/screws
- Unable to confirm

3.8 Smoke Alarms

- Smoke alarm present
- Location photographed
- Type observed: photoelectric / ionisation / unknown
- Unit tested as interconnected (pressing test button on one activates others)
- Test button pressed
- Alarm sounded
- Manufacture date recorded: _____
- Power source observed: mains / battery / both
- Unable to confirm

3.9 General Observations

- Ceramic fuse holder visible
- Bakelite or ceramic accessory visible
- Non-standard wiring or added component observed (photograph)

- Number of power boards observed: _____
- Cable damage visible
- Unable to confirm

SECTION 4 | Renewable, Storage & High-Load Electrical Systems

Solar PV System

Installed: Yes No

Inverter Rated Capacity: _____ kW

Inverter Location: Garage Outdoor Roof space

Inverter has any alarm on the screen: Yes No

Main PV Isolator Present: Yes No

DC Isolator marked "DC": Yes No

Roof Isolator Present: Yes No

Battery Energy Storage System (ESS)

Installed: Yes No

Battery/inverter nameplate photographed

Battery Capacity: _____ kWh

Continuous Output: _____ kW

Isolator Present: Yes No

Signs of Heat / Swelling / Odour: No Yes

EV Charging Equipment

Installed: Yes No

Charger Type: Wall-mounted Portable

Rated Current: _____ A

Rated Power: _____ kW

Dedicated Circuit: Yes No

Local Isolator Present: Yes No

Swimming Pool / Spa Equipment

Installed: Yes No

Pump Motor Rated Power: ____ kW

Pool Heater Rated Power: ____ kW

Dedicated Circuit Identified: Yes No

RCD Protection Indicated: Yes No

Other High Load Equipment (Mandatory)

Electric Cooktop Rated Power: ____ kW (Single-phase Three-phase)

Hot Water System Type: Storage Instantaneous

Hot Water System Rated Power: ____ kW

Air-Conditioning Type: Split Ducted

Air-Conditioning Electrical Input: ____ kW

Dedicated Circuit(s): Yes No

SECTION 5 | Measured & Test Data (Mandatory / Conditional)

Supply Voltage (No Load → Load):

L1: ____ V → ____ V L2: ____ V → ____ V L3: ____ V → ____ V

Load Current (Clamp Meter):

L1: ____ A L2: ____ A L3: ____ A Neutral: ____ A

Earth Resistance: ____ Ω Test Method: Clamp 3 pole

MEN Continuity: Pass Fail Main Earthing Conductor Size: ____ mm²

Thermal Imaging:

Ambient Temp: ____ °C Max Main Switch Temp: ____ °C ΔT: ____ °C

Insulation Resistance / Continuity / Voltage Drop – if applicable (record values only)

SECTION 6 | Exceptions, Client Statements & Completion

Observed Exceptions (describe only):

Client Statements (verbatim):

Previous issues: _____

Client concerns: _____

Completion Confirmation:

- All checklist items completed
- All required photos uploaded
- No advice or quotations provided

Technician Name & Signature: _____

Date: ____ / ____ / ____